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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/519,517	09/16/2005	Dicter Reichel	CBZ-1274	2514
22827 DODITY & M	7590 09/20/2007 ANNING, P.A.		EXAM	INER
POST OFFICE	BOX 1449		OLSON,	LARS A
GREENVILLE	E, SC 29602-1449		ART UNIT	PAPER NUMBER
			3617	
		•	MAIL DATE	DELIVERY MODE
			09/20/2007	PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

		Application No.	Applicant(s)
		10/519,517	REICHEL, DIETER
	Office Action Summary	Examiner	Art Unit
		Lars A. Olson	3617
Period fo	The MAILING DATE of this communication app	ears on the cover sheet with the o	correspondence address
A SH WHIC - Externation of the second of the	ORTENED STATUTORY PERIOD FOR REPLY CHEVER IS LONGER, FROM THE MAILING DANS of time may be available under the provisions of 37 CFR 1.13 SIX (6) MONTHS from the mailing date of this communication. Operiod for reply is specified above, the maximum statutory period were to reply within the set or extended period for reply will, by statute, reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be tir vill apply and will expire SIX (6) MONTHS from 1, cause the application to become ABANDONE	N. nely filed the mailing date of this communication. ED (35 U.S.C. § 133).
Status	·		
2a)	Responsive to communication(s) filed on	action is non-final.	
Dienoeiti	ion of Claims		
4)⊠ 5)□ 6)⊠ 7)⊠	Claim(s) <u>20-55</u> is/are pending in the application 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) <u>20-28,30-41,46-50 and 52-55</u> is/are re Claim(s) <u>29,42-45 and 51</u> is/are objected to Claim(s) are subject to restriction and/or	vn from consideration.	
Applicat	ion Papers		•
10)🖾	The specification is objected to by the Examine The drawing(s) filed on <u>16 September 2005</u> is/a Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Ex	are: a) \square accepted or b) \square object drawing(s) be held in abeyance. Se ion is required if the drawing(s) is ob	e 37 CFR 1.85(a). ejected to. See 37 CFR 1.121(d).
Priority (under 35 U.S.C. § 119		
a)	Acknowledgment is made of a claim for foreign All b) □ Some * c) □ None of: 1. □ Certified copies of the priority documents 2. □ Certified copies of the priority documents 3. ☒ Copies of the certified copies of the priority application from the International Bureau See the attached detailed Office action for a list	s have been received. s have been received in Applicat rity documents have been receive u (PCT Rule 17.2(a)).	ion No ed in this National Stage
2) Notice 3) Information	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948) mation Disclosure Statement(s) (PTO/SB/08) er No(s)/Mail Date 01132006.	4)	ate

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DETAILED ACTION

1. A preliminary amendment was received from the applicant on January 13, 2006.

2. Claims 1-19 have been canceled.

Claim Rejections - 35 USC § 112

- 3. The following is a quotation of the second paragraph of 35 U.S.C. 112:
 - The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.
- 4. Claims 20-27 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 5. Claims 20 and 27 recite the limitation "the tunnel tube" in line 2. There is insufficient antecedent basis for this limitation in the claims.
- 6. Claim 21 is presented in dependent form, depending from Claim 21. Therefore, it is unclear to the examiner whether the applicant intended to present the claim in independent or dependent form.
- 7. Claims 21-26 recite the limitation "The method" in line 1. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 102

8. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

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A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

9. Claims 20-24, 27, 28 and 30-41 are rejected under 35 U.S.C. 102(b) as being anticipated by Edwards (US 3,404,638).

Edwards discloses the same method for operating a rail vehicle in a tunnel as claimed, as shown in Figures 1-25, that is comprised of the step of directing air that is displaced by a rail vehicle, defined as Part #3, through at least one channel, defined as Part #23, that is located outside of a cylindrical tunnel, defined as Part #1, and connected to said tunnel by a plurality of openings, defined as Part #25, that are closeable, as shown in Figure 2. Air that is displaced by said vehicle is directed around said vehicle through said channel and then returns into said tunnel. A pump or turbine, defined as Part #33, is provided to assist with the conduction of air from said tunnel through said channel, as shown in Figure 2.

Edwards also discloses the same track system for a rail vehicle as claimed, as shown in Figures 1-25, that is comprised of a tunnel, defined as Part #1, with guide rails, defined as Part #17, and at least on channel, defined as Part #23, that is located outside of said tunnel and connected to said tunnel by a plurality of openings, defined as Part #25, that are closeable, where air that is displaced by a vehicle, defined as Part #3, is directed through said openings and into said channel, as shown in Figure 2. A pump or turbine, defined as Part #33, is also provided to assist with the conduction of air from said tunnel through said channel, as shown in Figure 2.

10. Claims 46-50 are rejected under 35 U.S.C. 102(b) as being anticipated by Allan (GB 1,104,746).

Allan discloses the same track system for a rail vehicle as claimed, as shown in Figure 3, that is comprised of a rail vehicle, defined as Part #1, a tunnel, defined as Part #2, with guide rails, defined as Parts #8 and 9, and a passage through said vehicle, defined as Part #20, that is configured to direct air back into said tunnel behind said vehicle. A turbine, defined as Part #19, is disposed within said vehicle, as shown in Figure 3, to assist in conduction of air that is displaced by said vehicle.

Claim Rejections - 35 USC § 103

- 11. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 12. Claims 52-55 are rejected under 35 U.S.C. 103(a) as being unpatentable over Allan in view of Edwards.

Allan, as set forth above, discloses all of the features claimed except for the use of a channel in communication with said tunnel that is configured to conduct a portion of the air displaced by said vehicle.

Edwards, as previously cited, discloses a track system for a rail vehicle that is comprised of a tunnel, defined as Part #1, with guide rails, defined as Part #17, and at least on channel, defined as Part #23, that is located outside of said tunnel and

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connected to said tunnel by a plurality of openings, defined as Part #25, that are closeable, where air that is displaced by a vehicle, defined as Part #3, is directed through said openings and into said channel, as shown in Figure 2. A pump or turbine, defined as Part #33, is also provided to assist with the conduction of air from said tunnel through said channel, as shown in Figure 2.

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention, to utilize a channel for conducting air from a tunnel around a vehicle, as taught by Edwards, in combination with the track system as disclosed by Allan for the purpose of providing a track system for a rail vehicle with a means for increasing vehicle speed by directing air from in front of said vehicle to the rear of said vehicle, where the resulting differential air pressure assists in moving said vehicle forward.

Allowable Subject Matter

13. Claims 29, 42-45 and 51 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Conclusion

14. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Jackson et al. (US 5,460,098) discloses a vehicle with an air

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duct that travels through a tubular guideway. Minovitch (US 4,148,260) discloses a high

speed vehicle that travels within a vacuum tube.

15. Any inquiry concerning this communication from the examiner should be directed

to Exr. Lars Olson whose telephone number is (571) 272-6685.

lo

September 17, 2007

LARS A. OLSON PRIMARY EXAMINER

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9/17/07

(Rev. 5/92)	Attorney Docket Number:	Serial Number:
Information Disclosure Statement List	CBZ-1274	10/519,517
By Applicant(s)	Applicant: DIETER	REICHEL
Under 37 CFR Section 1.98(a) (1)		
(Use several sheets if necessary)	Filing Date:	Group Art Unit:
OIPETER	DECEMBER 23, 2004	UNKNOWN
JAN 1 9 2006 (2)	Confirmation No:	
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USSN	, filed	
USSN		, filed;
Relied on under 35	U.S.C. Section 13	20, per Rule 98(d)

Both reasons (1) and (2) apply

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U.S. PATENT	DOCUMENTS									
EXAMINEI INITIALS	PA	TENT	NUM	BER	ISSUE DATE	COPY NOTE				
/I O/ T	STRAUSS	2	0	1	3	7	0	3	09/10/1935	5
/E0/	MINOVITCH	3	9	5	4	0	6	4	05/04/1976	5
707	SUPPES	5	1	4	6	8	5	3	09/15/1992	5

FOREIGN PAT	ENT DOCUME	NTS	}					-						
EXAMINER INITIALS	COUNTRY	DO	ocu	ME	NT	NUI	MBE	R		PUBLICATION DATE	TRANSLATION		COPY	
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*"NO" means that no copy of an English language translation is within the possession, custody, or control of, or is readily available to any individual designated in Rule 56(c).

EXAMINER	OTHER DOCUMENT	S	COPY				
INITIALS	Specify author (if any), Title, Pertinent Pages, Da	NOTE					
// 0/	GERMAN SEARCH REPORT	03/21/2003					
707	PCT SEARCH REPORT	08/19/2003					
EXAMINER	/Lars Olson/ (09/10/2007)	/Lars Olson/ (09/10/2007) DATE CONSID 09/10/					
Examiner:	initial if citation considered, whether or not citation i draw line through citation if not in conformance and a this form with the next communication to applicant.						